

Title (en)

BACKUP POWER SOURCE DEVICE AND AUTOMOBILE EQUIPPED WITH SAME

Title (de)

RESERVESTROMQUELLENVORRICHTUNG UND KRAFTFAHRZEUG DAMIT

Title (fr)

DISPOSITIF DE SOURCE D'ÉNERGIE DE SECOURS ET AUTOMOBILE ÉQUIPÉE DE CELUI-CI

Publication

**EP 2818366 A1 20141231 (EN)**

Application

**EP 13752028 A 20130208**

Priority

- JP 2012035904 A 20120222
- JP 2012238658 A 20121030
- JP 2013000696 W 20130208

Abstract (en)

A backup power source device includes the following elements: a capacitor; a charging circuit provided in the charging path of the capacitor and performing step-down operation; a boost circuit provided in the output path of the capacitor; and a door-lock-releasing output terminal connected to the boost circuit.

IPC 8 full level

**B60R 16/033** (2006.01); **H02J 9/06** (2006.01)

CPC (source: CN EP US)

**B60R 16/033** (2013.01 - CN EP US); **E05B 77/54** (2013.01 - CN EP US); **E05B 81/86** (2013.01 - CN EP US); **H02J 9/06** (2013.01 - US); **H02J 9/061** (2013.01 - EP US); **H02J 2310/46** (2020.01 - EP)

Cited by

EP3656098A4; WO2021156218A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2818366 A1 20141231**; **EP 2818366 A4 20150610**; **EP 2818366 B1 20160427**; CN 104136279 A 20141105; CN 104136279 B 20151230; CN 105059224 A 20151118; CN 105059224 B 20170426; CN 105186677 A 20151223; CN 105186677 B 20170718; EP 3002398 A1 20160406; EP 3002398 B1 20161130; EP 3006654 A1 20160413; EP 3006654 B1 20170329; JP 5618024 B2 20141105; JP WO2013125170 A1 20150730; US 2015001926 A1 20150101; US 9013056 B2 20150421; WO 2013125170 A1 20130829

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**EP 13752028 A 20130208**; CN 201380010620 A 20130208; CN 201510504873 A 20130208; CN 201510504874 A 20130208; EP 15196137 A 20130208; EP 15196138 A 20130208; JP 2013000696 W 20130208; JP 2014500894 A 20130208; US 201314373033 A 20130208